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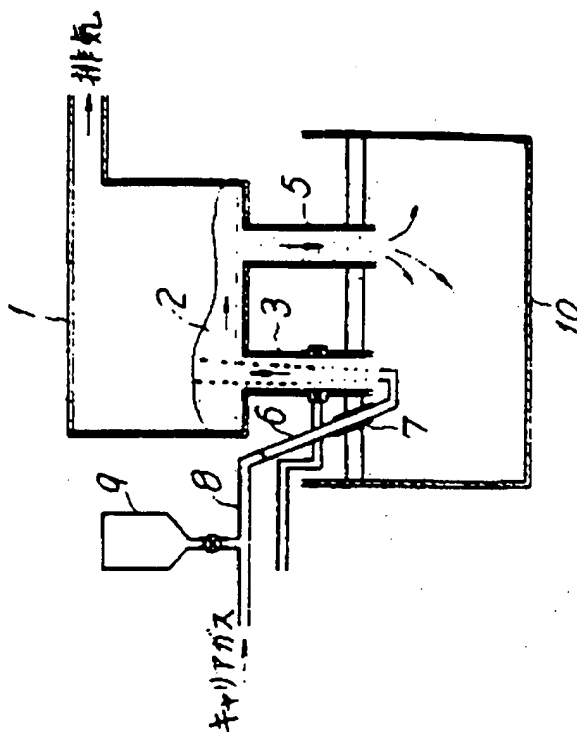
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APPLICANT : KAWASAKI STEEL CORP;

INVENTOR : UEDA ARATA;

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TITLE : VACUUM REFINING METHOD OF  
MOLTEN STEEL



ABSTRACT : PURPOSE: To effectively execute a desulfurization, by blowing a fine powdered desulfurizing agent into an ascending current of molten steel together with carrier gas, from a blow-in lance of the desulfurizing agent, which has been opened in the center of the lower part of an immersing pipe for leading the ascending current of molten steel.

CONSTITUTION: An ascending pipe 3 and a descending pipe 5 are immersed into molten steel in a ladle, and pressure in a vacuum tank 1 is reduced. When inert gas is blown into the molten steel from an invert gas blow-in port 7 of the ascending pipe 3, the molten steel flows circularly through the ascending pipe 3, the vacuum tank 1 and the descending pipe 5. At the time point when said circulation has become smooth, a fine powdered desulfurizing agent in a hopper 9 is added to carrier gas. This blow-in is executed from the center of the lower part of the ascending pipe 3, therefore, the fine powdered desulfurizing agent ascends in the ascending pipe 3 without drifting is mixed with the molten steel sufficiently, and desulfurization is executed efficiently.

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